

T87 / Y87

SINGLE ZONE THERMOSTAT RANGE

PRODUCT SPECIFICATION SHEET



DESCRIPTION & APPLICATION

T87/Y87 is a family of modern digital room thermostats available in both wired and RF models and capable of Connected operation via a Honeywell RFG100 internet gateway.

Output configurations include modulating (OpenTherm) and on/off.

Wired OpenTherm models are powered by the OpenTherm bus. The room units for all RF models are powered by 2 x AA alkaline batteries.

Applications include direct boiler control or as the room unit in a multi-zone control system, providing room temperature measurement and setpoint adjustment functions. Compatible zone controllers are Evohome and the HCE80 underfloor heating controller.

FEATURES

- Single zone thermostat, offering Connectivity as an upgrade.
- Connected models allow remote operation and scheduling via the Honeywell TCC app for smartphones or tablets.
- Modern, stylish design to fit any decor.
- Compatible for retrofit with previous generations of T87.
- Simple intuitive operation by rotating dial.
- Large backlit display.
- 0.5°C accuracy.
- Installer mode, allowing setting of maximum and minimum set temperatures and default off setpoint.
- A range of models to suit different installations or applications.

- Battery-operated models use 2xAA alkaline batteries. Minimum battery lifetime 2 years, with battery low warning indicator.
- Control forms are either Modulating (via OpenTherm) or TPI. See Specifications and Model Listings for more information.
- Suitable for wall mounting.
- Wireless models have 2-way RF communication on 868MHz band, offering a typical range of 30m in buildings.
- Wireless control of remote boiler using BDR91 relay box or R8810 OpenTherm bridge.
- Suitable for use as the room unit in systems containing Evohome or HCE80 underfloor heating controller.
- CE, WEEE and RoHS compliant.

SPECIFICATIONS

ELECTRICAL								
Power Supply (room	: T87M / T87HC / T87C - Opentherm 2 wire bus							
thermostat)	: T87RF – 2xAA (LR6) 1.5V alkaline batteries							
	: T87G – lifetime power pack							
Switch Type/Rating	See table per model on next page							
Wiring	T87M / T87HC / T87C 2 x screw terminals, with access from back							
	: T87RF / Y87RF packs – wiring is to RF transceiver							
RF SPECIFICATION (T87RF, Y87RF, T87C, Y87C)								
Operation band	: ISM (868.0-868.6) MHz, 1% duty cycle							
Communication range	: 30 m in a residential building.							
Communication	: 2-way RF, using short, high rate transmissions to minimise air time and avoid							
technology	collisions.							
Blocking immunity	Receiver class 2 (ETSI EN300 220-1)							
ENVIRONMENTAL &	STANDARDS							
Operating	: 0°C to 40°C							
Shipping/storage	: -20°C to 55°C							
Humidity	: Range 10% to 90% rh, non-condensing							
Protection Class	: IP20 for T87 room thermostat (IEC144)							
	: IP40 for BDR91, R8810, RFG100							
Approvals &	: CE mark; refer to DOCs for details							
Regulatory	: D1115 for T87M, T87HC							
Compliance	: D1116 for T87C, Y87C							
	: D1117 for T87RF, Y87RF, Y87RFC							
	: D1118 for T87G							
ErP Class	: IV (2%) for T87G, T87RF, Y87RF, Y87RFC							
	: V (3%) for Y87RF2008							
	: VI (4%) for T87M, T87HC, T87C, Y87C							
PHYSICAL PROPER	TIES							
Enclosure : Flame re	etardant plastic housings.							
Dimensions : T87 84mm Φ, 33mm height								
Weight: 133g (T87RF/T87G), 89g (T87 /T87HC /T87C) excluding packaging/literature.								

MODEL LISTINGS

Listing	Languages	Control Type	Switch Type	RF Control	Connectable *	Connected pack	Thermostat	Transceiver	Gateway
T87M2018	NL	Modulation	OpenTherm				T87M		
T87M2036	EN,ES,FR, NL,DE,IT, HU,CZ,PL, SK,RO,TR	Modulation	OpenTherm				T87M		
T87HC2011	NL	Modulation Heat/Cool	OpenTherm				T87HC		
T87C2055	NL	Modulation	OpenTherm		•		T87C		
Y87C2004	NL, BE	Modulation	OpenTherm			•	T87C		RFG100
T87RF2025	NL	TPI	uses BDR91	•	•		T87RF		
T87RF2033	EN	TPI	uses BDR91	•	•		T87RF		
T87RF2041	IT, FR, ES	TPI	uses BDR91	•	•		T87RF		
T87RF2059	DE	TPI	Uses BDR91	•	•		T87RF		
Y87RF2008	NL	Modulation	OpenTherm	•	•		T87RF	R8810	
Y87RF2012	NL	TPI	SPDT 5(3)A 24230Vac	•	•		T87RF	BDR91	
Y87RF2024	EN	TPI	SPDT 5(3)A 24230Vac	•	•		T87RF	BDR91	
Y87RF2058	IT, FR, ES	TPI	SPDT 5(3)A 24230Vac	•	•		T87RF	BDR91	
Y87RFC2032	NL, BE	TPI	SPDT 5(3)A 24230Vac	•		•	T87RF	BDR91	RFG100
Y87RFC2066	IT, FR, ES	TPI	SPDT 5(3)A 24230Vac	•		•	T87RF	BDR91	RFG100
Y87RFC2074	PL, HU, CZ, SK, RO	TPI	SPDT 5(3)A 24230Vac	•		•	T87RF	BDR91	RFG100
Y87RFC2090	TR	TPI	SPDT 5(3)A 24230Vac	•		•	T87RF	BDR91	RFG100
Y87RFC2116	EN	TPI	SPDT 5(3)A 24230Vac	•		•	T87RF	BDR91	RFG100
T87G2014-E	NL	TPI	SPST 1250mA 324Vac 40Vdc				T87G		

^{*} Device can become Connected by binding to a Honeywell RFG100 Internet Gateway



Institut **Automatització, S.L.**

c\ Gomis, 29-33, 08023 BARCELONA

Tel.: 93 454 20 06 Fax: 93 323 70 59 iac@instauto.com www.instauto.com



